



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Same as

Amendment #6

Applicant : Britton Chance

Art Unit : 3737

Serial No. : 09/924,152

Examiner : Unknown

Filed : August 7, 2001

Title : EXAMINATION OF A BIOLOGICAL TISSUE USING PHOTON MIGRATION  
BETWEEN A PLURALITY OF INPUT AND DETECTION LOCATIONS

Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the claims:

Cancel claims 1-47.

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Add claim 48 as follows:

-- 48. (New) A spectroscopic system for imaging biological tissue comprising:  
multiple input ports arranged to introduce light at input locations into biological tissue  
and multiple detection ports arranged to collect light from detection locations of the biological  
tissue,

at least one light source, operatively connected to a radiation pattern controller,  
constructed to generate light of a wavelength in a range from visible to infrared, said light source  
optically coupled to at least one of said input ports;

at least one detector, operatively connected to said radiation pattern controller,  
constructed and arranged to detect light of said wavelength that has migrated in the tissue region  
to at least one detection location and corresponding at least one of said detection ports; and

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